

## Product datasheet for **SC119512**

### **RPS3 (NM\_001005) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RPS3 (NM_001005) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS3
Synonyms:	S3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001005, the custom clone sequence may differ by one or more nucleotides

```
ATGGCAGTGCAAATATCCAAGAAGAGGAAGTTTGTGCGCTGATGGCATCTTCAAAGCTGAACTGAATGAGT
TTCTTACTCGGGAGCTGGCTGAAGATGGCTACTCTGGAGTTGAGGTGCGAGTTACACCAACCAGGACAGA
AATCATTATCTTAGCCACCAGAACACAGAATGTTCTTGGTGAGAAGGCCGGCGGATTTCGGGAAGTACTG
GCTGTAGTTCAGAAGAGGTTTGGCTTCCAGAGGGCAGTGTAGAGCTTTATGCTGAAAAGGTGGCCACTA
GAGGTCTGTGTGCCATTGCCAGGCAGAGTCTCTGCGTTACAACTCCTAGGAGGGCTTGCTGTGCGGAG
GGCCTGCTATGGTGTGCTGCGGTTTCATCATGGAGAGTGGGGCCAAAGGCTGCGAGGTTGTGGTGTCTGG
AACTCCGAGGACAGAGGGCTAAATCCATGAAGTTTGTGGATGGCCTGATGATCCACAGCGGAGACCCTG
TTAACTACTACGTTGACTGCTGTGCGCCACGTGTTGCTCAGACAGGGTGTGCTGGGCATCAAGGTGAA
GATCATGCTGCCCTGGGACCCAAGTAAAGATTGGCCCTAAGAAGCCCTGCCTGACCAGTGAGCATT
GTGGAACCCAAAGATGAGATACTGCCACCACCCCATCTCAGAACAGAAGGGTGGGAAGCCAGAGCCGC
CTGCCATGCCCCAGCCAGTCCCCACAGCATAA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001005 unedited  
 GTATACGACTTACTATAGGGGCGGCCGCGATTCCGGCACGAGGGCGCGGCCGAGATGGC  
 AGTGCAAATATCCAAGAAGAGGAAGTTTGTGCGCTGATGGCATCTTCAAAGCTGAACTGAA  
 TGAGTTTCTTACTCGGGAGCTGGCTGAAGATGGCTACTCTGGAGTTGAGGTGCGAGTTAC  
 ACCAACCCAGGACAGAAATCATTATCTTAGCCACCAGAACACAGAATGTTCTTGGTGAGAA  
 GGGCCGGCGGATTCCGGAACTGACTGCTGTAGTTCAGAAGAGGTTGGCTTCCAGAGGG  
 CAGTGTAGAGCTTATGCTGAAAAGGTGGCCACTAGAGGCTGTGTGCCATTGCCAGGC  
 AGAGTCTCTGCGTTACAACCTCTAGGAGGGCTTGTGTGCGGAGGGCCTGCTATGGTGT  
 GCTGCGGTTTCATCATGGAGAGTGGGGCCAAAGGCTGCGAGGTTGTGGTGTCTGGGAACT  
 CCGAGGACAGAGGGCTAAATCCATGAAGTTTGTGGATGGCCTGATGATCCACAGCGGAGA  
 CCCTGTAACTACTACGTTGACTGCTGTGCGCCACGTGTTGCTCAGACAGGGTGTGCT  
 GGGCATCAAGGTGAAGATCATGCTGCCCTGNGACCCAACCTGGTAAGATTGGCCCTAAGAA  
 GCCCTGCCTGACCACGTGAGCATTGTGGAACCCAAAATGAGATACTGCCACCACCNC  
 ATCTCAGACAGAAGGGNTGGAAGCCAGAGCCGCTGCCATGCCCCAGCCAGTCCCACAGC  
 ATAACAGGGGTCTTTGGCAGCTGATTNCTGGAGTCTTGGATGGTGTCTCTAAAGACCT  
 TTTATAANATNNTGTACAAGACAAAAAATAAATAAATAAATAAATAAATAAATAAATAA  
 AATAGCTGGTTCTGACAATACCCCGGGGGGATC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001005 unedited  
 GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTGTCTTTGTACAAAATTTTATTAA  
 AGGTCTTTAGAGAGCAACATCCAGACTCCAGAATACAGCTGCCAAGGAGACCCTGTTATG  
 CTGTGGGGACTGGCTGGGCATGGCAGGCGGCTCTGGCTTCCCACCTTCTGTTCTGAGA  
 TGGGGGTGGTGGCAGTATCTCATCTTTGGTTCCACAATGCTCACGTGGTCAGGCAGGG  
 GCTTCTTAAGGCAATCTTACCAGTTGGTCCCAGGGCAGCATGATCTTACCTTGATGC  
 CCAGCACACCCTGTCTGAGCAACACGTGGCGCACAGCAGTGTCAACGTAGTAGTTAACAG  
 GGTCTCCGCTGTGGATCATCAGGCCATCCACAACTTCATGGATTTAGCCCTCTGTCTCTC  
 GGAGTTTCCCAGACACCACAACCTCGCAGCCTTTGGCCCCACTCTCCATGATGAACCGCA  
 GCACACCATATCAGGCCCTCCGCACAGCAAGCCCTCCTATGAGTTTGAACGCAGAGACT  
 CTGCCTGGGCAATGGCACACAGACCTCTAGTGGCCACCTTTTTCAGCATAAAGCTCTACAC  
 TGCCCTTGAAAGCCAAACCTCTTCTGAACTACAGCAGTCAGTCCCGAATCCGCCGGC  
 CCTTCTCACCAAGAACATCTGTGTTCTGGAGGCTAAGATAATGATCTCTGTCTGGNTG  
 AGTAACTCGCACCTCAACTCCAGAGTAGCCATCTTCAGCCAGTCCCAGTAAGAAATC  
 ATCAGTTCAGCTTTGAAGATGCATCAGCGACAACCTCCTCTTCTAGGATATTTGNACTG  
 NCATCTCGCCCGCGCCCTCGTGCCNGATTTCGCGGGCGCCCTATAGTGAGTCGATTACA  
 AATTCTGACGGTCACTATCGAGCCTGCTATATAGCCTCCAGTACAGCCTACGCCATTGC  
 GTATCGGGCGAGGTATACGACTTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001005

**Insert Size:**

820 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:**

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001005.3](#), [NP\\_000996.2](#)

**RefSeq Size:** 855 bp

**RefSeq ORF:** 732 bp

**Locus ID:** 6188

**UniProt ID:** [P23396](#)

**Cytogenetics:** 11q13.4

**Domains:** Ribosomal\_S3\_C, KH

**Protein Pathways:** Ribosome

**Gene Summary:** Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit, where it forms part of the domain where translation is initiated. The protein belongs to the S3P family of ribosomal proteins. Studies of the mouse and rat proteins have demonstrated that the protein has an extraribosomal role as an endonuclease involved in the repair of UV-induced DNA damage. The protein appears to be located in both the cytoplasm and nucleus but not in the nucleolus. Higher levels of expression of this gene in colon adenocarcinomas and adenomatous polyps compared to adjacent normal colonic mucosa have been observed. This gene is co-transcribed with the small nucleolar RNA genes U15A and U15B, which are located in its first and fifth introns, respectively. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]

**Transcript Variant:** This variant (1) and variant 2 both encode the same protein (isoform 1).

**Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.